(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 17 June 2004 (17.06.2004)

PCT

(10) International Publication Number WO 2004/050074 A1

- (51) International Patent Classification⁷: A61K 31/185, 9/28, A61P 3/10, 7/00, 9/00, 13/12, 15/10, 27/02
- (21) International Application Number:

PCT/EP2003/013468

(22) International Filing Date:

29 November 2003 (29.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

200202754

29 November 2002 (29.11.2002) ES

- (71) Applicant (for all designated States except US): LABORATORIOS DEL DR. ESTEVE S.A. [ES/ES]; Av. Mare de Déu de Montserrat, 221, E-08041 Barcelona (ES).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ESTEVE-SOLER, José [ES/ES]; Alt de Gironella, 58-62, 3°, E-08017 Barcelona (ES). SÁENZ DE TEJADA-GORMAN, Inigo [ES/ES]; C/La Masó, 17, E-28034 Madrid (ES). ANGULO-FRUTOS, Javier [ES/ES]; Paseo del Prado, 2A-3°B, E-28340 Valdemoro (ES).

- (74) Agent: DAVILA BAZ, A., Clarke, Modet & Co., C/Goya, 11, 28001 Madrid (ES).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, Cl, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF 2,5-DIHYDROXYBENZENESULFONIC COMPOUNDS FOR THE TREATMENT OF DISORDERS BASED ON AN IMPAIRMENT OF NO PRODUCTION AND/OR OF REGULATION OF EDHF FUNCTION

$$\begin{bmatrix} & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\ & & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\$$

(57) Abstract: The present invention relates to the use of 2,5-dihydroxybenzenesulfonic compounds for the manufacture of medical ment for the regulation of nitric oxide (NO) synthesis and/or the regulation of EDHF (Endothelium-derived-Hyperpolarizing-Factor) in the endothelium of humans or animals, whereby the medicament is administerd in a daily dose of the 2,5-dihydroxybenzenesu-fonic compounds of formula I of < 500 mg.